

FORM PTO-1449

FIRST SUPPLEMENTAL
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
2072.0010008APPLICATION NO.
10/790,766FIRST NAMED INVENTOR
MICHELLE HANNAFILING DATE
March 3, 2004ART UNIT
1637

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA3						
	AB3						
	AC3						
	AD3						
	AE3						
	AF3						
YK	AG3	5,503,979	04/1996	Kramer <i>et al.</i>			
YK	AH3	6,114,519	09/2000	Cole <i>et al.</i>			
YK	AI3	2002/0168641	11/2002	Mortensen <i>et al.</i>			
	AJ3						
	AK3						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

YK	AR	<u>21</u>	Cheung <i>et al.</i> , "A Resource of Mapped Human Bacterial Artificial Chromosome Clones," <i>Genome Research</i> 9:983-993, Cold Spring Laboratory Press (1999).
YK	AS	<u>21</u>	Sasaki <i>et al.</i> , "Transcriptional sequencing: A method for DNA sequencing using RNA polymerase" <i>Proc. Nat'l Acad. Sci. USA</i> 95:3455-3460 (1998).
	AT	<u>21</u>	

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DATE CONSIDERED

10-24-06


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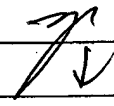
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	3,996,345	12/1976	Ullman <i>et al.</i>			
	AB1	4,351,760	09/1982	Khanna <i>et al.</i>			
	AC1	4,582,788	04/1986	Erlich			
	AD1	4,683,194	07/1987	Saiki <i>et al.</i>			
	AE1	4,739,044	04/1988	Stabinsky			
	AF1	4,757,141	07/1988	Fung <i>et al.</i>			
	AG1	4,786,600	11/1988	Kramer <i>et al.</i>			
	AH1	5,130,238	07/1992	Malek <i>et al.</i>			
	AI1	5,169,766	12/1992	Schuster <i>et al.</i>			
	AJ1	5,508,178	04/1996	Rose <i>et al.</i>			
	AK1	5,595,891	01/1997	Rose <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	WO 89/01050	02/09/1989	WIPO			Yes No
	AM1	WO 03/038042 A2	05/08/2003	WIPO			Yes No
	AN1						Yes No
	AO1						Yes No
	AP1						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	1	Agrawal, S., and Tang, J.-Y., "Site-specific functionalization of oligodeoxynucleotides for non-radioactive labeling," <i>Tetrahedron Lett.</i> 31:1543-1546, Pergamon Press (1990)
	AS	1	Chamberlin, M.J., "Bacterial DNA-Dependent RNA Polymerases," in <i>The Enzymes</i> , Boyer, P.D., ed., Academic Press, New York, N.Y. pp. 61, 84-86 (1982)
	AT	1	Costas, C., <i>et al.</i> , "RNA-protein crosslinking to AMP residues at internal positions in RNA with a new photocrosslinking ATP analog," <i>Nucleic Acids Res.</i> 28:1849-1858, Oxford University Press (May 2000)

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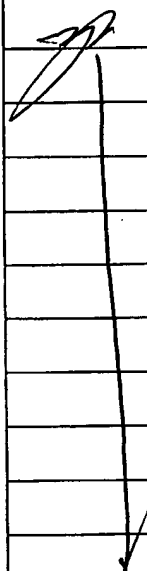
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6-24-06

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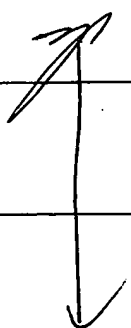
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	AA2	5,648,211	07/1997	Fraiser <i>et al.</i>			
	AB2	5,654,142	08/1997	Kievits <i>et al.</i>			
	AC2	5,679,512	10/1997	Laney <i>et al.</i>			
	AD2	5,683,879	11/1997	Laney <i>et al.</i>			
	AE2	5,744,308	04/1998	Guillou-Bonnici <i>et al.</i>			
	AF2	5,766,849	06/1998	McDonough <i>et al.</i>			
	AG2	5,824,517	10/1998	Cleuziat <i>et al.</i>			
	AH2	5,858,801	01/1999	Brizzolara			
	AI2	6,008,334	12/1999	Hanna			
	AJ2	6,107,037	08/2000	Sousa <i>et al.</i>			
	AK2	6,107,039	08/2000	Hanna			

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	AL2						Yes No
	AM2						Yes No
	AN2						Yes No
	AO2						Yes No
	AP2						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	2	Daube, S.S., and von Hippel, P.H., "Functional Transcription Elongation Complexes from Synthetic RNA-DNA Bubble Duplexes," <i>Science</i> 258:1320-1324, American Association for the Advancement of Science (1992)				
	AS	2	Dunn, J.J., and Studier, F.W., "Complete Nucleotide Sequence of Bacteriophage T7 DNA and the Locations of T7 Genetic Elements," <i>J. Mol. Biol.</i> 166:477-535, Academic Press, Inc. (1983)				
	AT	2	Gait, M.J., <i>et al.</i> , "Oligoribonucleotide synthesis," in <i>Oligonucleotides and Analogues</i> , Eckstein, F., ed., Oxford University Press, Oxford, Great Britain, pp. 25-31 (1992)				

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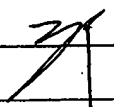
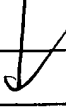
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	AA3	5,399,491	03/21/95	Kacian <i>et al.</i>			03/19/92
	AB3	5,888,819	03/30/99	Goelet <i>et al.</i>			03/05/91
	AC3	5,554,516	09/10/96	Kacian <i>et al.</i>			12/02/93
	AD3	5,571,669	11/05/1996	Lu <i>et al.</i>			01/14/1993
	AE3	6,251,594 B1	06/26/2001	Gonzalzo <i>et al.</i>			06/09/1998
	AF3	2003/0099950 A1	05/29/2003	Hanna, M.M.			10/30/2001
	AG3						
	AH3						
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	AL3						Yes No
	AM3						Yes No
	AN3						Yes No
	AO3						Yes No
	AP3						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	3	Gait, M.J., "An Introduction to Modern Methods of DNA Synthesis," in <i>Oligonucleotide synthesis: a practical approach</i> , Gait, M.J., ed., Oxford University Press, Oxford, Great Britain, pp.1-22 (1984)
	AS	3	Geider, K., <i>et al.</i> , "An RNA transcribed from DNA at the origin of phage fd single strand to replicative form conversion," <i>Proc. Natl. Acad. Sci. USA</i> 75:645-649, National Academy Press (1978)
	AT	3	Guatelli, J.C., <i>et al.</i> , "Isothermal, <i>in vitro</i> amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication," <i>Proc. Natl. Acad. Sci. USA</i> 87:1874-1878, National Academy Press (1990)

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	AA4						
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	AL4						Yes No
	AM4						Yes No
	AN4						Yes No
	AO4						Yes No
	AP4						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>4</u>	Gupta, K.C., <i>et al.</i> , "A general method for the synthesis of 3'-sulphydryl and phosphate group containing oligonucleotides," <i>Nucleic Acids Res.</i> 19:3019-3025, Oxford University Press (1991)
	AS	<u>4</u>	Gurevich, V.V., <i>et al.</i> , "Preparative <i>in Vitro</i> mRNA Synthesis Using SP6 and T7 RNA Polymerases," <i>Anal. Biochem.</i> 195:207-213, Academic Press, Inc. (1991)
	AT	<u>4</u>	Hanna, M.M., "Photoaffinity Cross-Linking Methods for Studying RNA-Protein Interactions," <i>Methods Enzymol.</i> 180:383-409, Academic Press, Inc. (1989)

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	AA5						
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	AL5						Yes No
	AM5						Yes No
	AN5						Yes No
	AO5						Yes No
	AP5						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>5</u>	Hanna, M.M., <i>et al.</i> , "Probing the environment of nascent RNA in <i>Escherichia coli</i> transcription elongation complexes utilizing a new fluorescent ribonucleotide analog," <i>Nucleic Acids Res.</i> 27:1369-1376, Oxford University Press (1999)
	AS	<u>5</u>	Hanna, M.M., <i>et al.</i> , "Synthesis and characterization of a new photocrosslinking CTP analog and its use in photoaffinity labeling <i>E.coli</i> and T7 RNA polymerases," <i>Nucleic Acids Res.</i> 21:2073-2079, Oxford University Press (1993)
	AT	<u>5</u>	He, B., <i>et al.</i> , "Preparation of probe-modified RNA with 5-mercapto-UTP for analysis of protein-RNA interactions," <i>Nucleic Acids Res.</i> 23:1231-1238, Oxford University Press (1995)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA6						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AL6						No
	AM6						Yes
							No
	AN6						Yes
							No
	AO6						Yes
							No
	AP6						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	6	Kwoh, D.Y., <i>et al.</i> , "Transcription-based amplification system and detection of amplified human immunodeficiency virus type 1 with a bead-based sandwich hybridization format," <i>Proc. Natl. Acad. Sci. USA</i> 86:1173-1177, National Academy Press (1989)
	AS	6	Lewis, M.K., and Burgess, R.R., "Transcription of Simian Virus 40 DNA by Wheat Germ RNA Polymerase II," <i>J. Biol. Chem.</i> 255:4928-4936, American Society for Biochemistry and Molecular Biology (1980)
	AT	6	Martin, C.T., <i>et al.</i> , "Processivity in Early Stages of Transcription by T7 RNA Polymerase," <i>Biochemistry</i> 27:3966-3974, American Chemical Society (1988)

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	AA7						
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
							Yes
	AL7						No
	AM7						Yes
							No
	AN7						Yes
							No
	AO7						Yes
							No
	AP7						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	Z	Meyer, K.L., and Hanna, M.M., "Synthesis and Characterization of a New 5-Thiol-Protected Deoxyuridine Phosphoramidite for Site-Specific Modification of DNA," <i>Bioconjugate Chem.</i> 7:401-412, American Chemical Society (1996)
	AS	Z	Milligan, J.F., and Uhlenbeck, O.C., "Synthesis of Small RNAs Using T7 RNA Polymerase," <i>Methods Enzymol.</i> 180:51-62, Academic Press, Inc. (1989)
	AT	Z	Montemagno, C., and Bachand, G., "Constructing nanomechanical devices powered by biomolecular motors," <i>Nanotechnology</i> 10:225-231, IOP Publishing, Ltd. (1999)

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	AL8						No
	AM8						Yes
							No
	AN8						Yes
							No
	AO8						Yes
							No
	AP8						Yes
							No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	8	Mullis, K., <i>et al.</i> , "Specific Enzymatic Amplification of DNA In Vitro: The Polymerase Chain Reaction," <i>Cold Spring Harb. Symp. Quant. Biol.</i> 51:263-273, Cold Spring Harbor Laboratory (1986)
	AS	8	Mullis, K.B., <i>et al.</i> , "The Polymerase Chain Reaction: Why It Works," in <i>Polymerase Chain Reaction</i> , Erlich, H.A., <i>et al.</i> , eds., Cold Spring Harbor Laboratory Press, Woodbury, N.Y., pp. 237-243 (1989)
	AT	8	Nelson, P.S., <i>et al.</i> , "Bifunctional oligonucleotide probes synthesized using a novel CPG support are able to detect single base pair mutations," <i>Nucleic Acids Res.</i> 17:7187-7194, Oxford University Press (1989)

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	AA9						
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	AL9						Yes No
	AM9						Yes No
	AN9						Yes No
	AO9						Yes No
	AP9						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	9	Pringsheim, P., "Fluorescence of organic compounds," in Fluorescence and phosphorescence, Pringsham, P., ed., Interscience Publishers, Inc. New York, N.Y., pp. 392-397, 420-423 (1949)				
	AS	9	Saiki, R.K., et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491, American Association for the Advancement of Science (1988)				
	AT	9	Sinha, N.D., and Striepeke, S., "Oligonucleotides with reporter groups attached to the 5'-terminus," in <i>Oligonucleotides and Analogues: A Practical Approach</i> , Eckstein, F., ed., Oxford University Press pp. 185-189, 200-201 (1992)				

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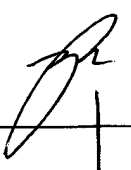

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	AL10						Yes No
	AM10						Yes No
	AN10						Yes No
	AO10						Yes No
	AP10						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	10	Smithies, O., et al., "Detection of Targeted Gene Modifications by Polymerase Chain Reaction," in <i>Polymerase Chain Reaction</i> , Erlich, H.A., et al., eds., Cold Spring Harbor Laboratory Press, Woodbury, N.Y., pp. 199-203(1989)
	AS	10	Sproat, B.S., et al., "The synthesis of protected 5'-mercapto-2',5'-dideoxyribonucleoside-3'-O-phosphoramidites; uses of 5'-mercapto-oligodeoxyribonucleotides," <i>Nucleic Acids Res.</i> 15:4837-4848, Oxford University Press (1987)
	AT	10	Walker, G.T., et al., "Isothermal in vitro amplification of DNA by a restriction enzyme/DNA polymerase system," <i>Proc. Natl. Acad. Sci. USA</i> 89:392-396, National Academy Press (1992)

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	AL11						Yes No
	AM11						Yes No
	AN11						Yes No
	AO11						Yes No
	AP11						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	11	Zuckermann, R., <i>et al.</i> , "Efficient methods for attachment of thiol specific probes to the 3'-ends of synthetic oligodeoxyribonucleotides," <i>Nucleic Acids Res.</i> 15:5305-5321, Oxford University Press (1987)
	AS	11	Daube <i>et al.</i> , "Functional Transcription Elongation Complexes from Synthetic RNA-DNA Bubble Complexes," <i>Science</i> , 1992, vol. 258, pages 1320-1324
	AT	11	Mancini <i>et al.</i> , "Constitutively Methylated CpG Dinucleotides as Mutation Hot Spots in the Retinoblastoma Gene (RB1), <i>American Journal of Human Genetics</i> , 1997, vol. 61, pages 80-87

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA12					
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL12					Yes No
	AM12					Yes No
	AN12					Yes No
	AO12					Yes No
	AP12					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>12</u>	International Search Report for International Application No. PCT/US02/34419, mailed July 24, 2003, International Searching Authority/USA, Washington, D.C.
	AS	<u>12</u>	Antequerra, F., and Bird, A., "Number of CpG islands and genes in human and mouse," <i>Proc. Natl. Acad. Sci. USA</i> 90:11995-11999, National Academy of Sciences (1993)
	AT	<u>12</u>	Callahan, R., et al., "Frequent Mutations in Breast Cancer," <i>Ann. N.Y. Acad. Sci.</i> 698:21-30, New York Academy of Sciences (1993)

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	AA13						
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	AL13						Yes No
	AM13						Yes No
	AN13						Yes No
	AO13						Yes No
	AP13						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>13</u>	Cifone, M.A., and Fidler, I.J., "Increasing metastatic potential is associated with increasing genetic instability of clones isolated from murine neoplasms," <i>Proc. Natl. Acad. Sci. USA</i> 78:6949-6952, National Academy of Sciences (1981).
	AS	<u>13</u>	Esteller, M., <i>et al.</i> , "Promoter Hypermethylation and BRCA1 Inactivation in Sporadic Breast and Ovarian Tumors," <i>J. Natl. Cancer Inst.</i> 92:564-569, Oxford University Press (April 2000). (Retrieved from LexisNexis Academic database)
	AT	<u>13</u>	Frommer, M., <i>et al.</i> , "A genomic sequencing protocol that yields a positive display of 5-methylcytosine residues in individual DNA strands," <i>Proc. Natl. Acad. Sci. USA</i> 89:1827-1831, National Academy of Sciences (1992)

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	AL14					Yes No
	AM14					Yes No
	AN14					Yes No
	AO14					Yes No
	AP14					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>14</u>	Giusti, W.G., and Adriano, T., "Synthesis and Characterization of 5'-Fluorescent-dye-labeled Oligonucleotides," <i>PCR Methods Appl.</i> 2:223-227, Cold Spring Harbor Laboratory Press (1993)
	AS	<u>14</u>	Gupta, K.C., <i>et al.</i> , "A general method for the synthesis of 3'-sulfhydryl and phosphate group containing oligonucleotides," <i>Nucleic Acids Res.</i> 19:3019-3025, Oxford University Press (1991)
	AT	<u>14</u>	Herman, J.G., <i>et al.</i> , "Inactivation of the <i>CDKN2/p16/MTS1</i> Gene Is Frequently Associated with Aberrant DNA Methylation in All Common Human Cancers," <i>Cancer Res.</i> 55:4525-4530, American Association for Cancer Research (1995)

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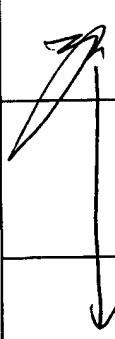
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	AL15					Yes No
	AM15					Yes No
	AN15					Yes No
	AO15					Yes No
	AP15					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>15</u>	Herman, J.G., <i>et al.</i> , "Incidence and functional consequences of <i>hMLH1</i> promoter hypermethylation in colorectal carcinoma," <i>Proc. Natl. Acad. Sci. USA</i> 95:6870-6875, National Academy of Sciences (1998)
	AS	<u>15</u>	Horii, A., <i>et al.</i> , "Frequent Replication Errors at Microsatellite Loci in Tumors of Patients with Multiple Primary Cancers," <i>Cancer Res.</i> 54:3373-3375, American Association for Cancer Research (1994)
	AT	<u>15</u>	Issa, J.-P.J., <i>et al.</i> , "Methylation of the oestrogen receptor CpG island links ageing and neoplasia in human colon," <i>Nat. Genet.</i> 7:536-540, Nature Publishing Co. (1994)

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	AL16					Yes No
	AM16					Yes No
	AN16					Yes No
	AO16					Yes No
	AP16					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	16	Jin, D.J., "An <i>Escherichia coli</i> RNA Polymerase Defective in Transcription due to its Overproduction of Abortive Initiation Products," <i>J. Mol. Biol.</i> 236:72-80, Academic Press Limited (1994)
	AS	16	Langer, P.R., <i>et al.</i> , "Enzymatic synthesis of biotin-labeled polynucleotides: Novel nucleic acid affinity probes," <i>Proc. Natl. Acad. Sci. USA</i> 78:6633-6637, National Academy of Sciences (1981)
	AT	16	Loeb, L.A., "Mutator Phenotype May Be Required for Multistage Carcinogenesis," <i>Cancer Res.</i> 51:3075-3079, American Association for Cancer Research (1991)

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	AL17						Yes No
	AM17						Yes No
	AN17						Yes No
	AO17						Yes No
	AP17						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	17	Meinkoth, J., and Wahl, G., "Hybridization of Nucleic Acids Immobilized on Solid Supports," <i>Anal. Biochem.</i> 138:267-284, Academic Press, Inc. (1984)
	AS	17	Nowell, P.C., "The Clonal Evolution of Tumor Cell Populations," <i>Science</i> 194:23-28, American Association for the Advancement of Science (1976)
	AT	17	Palmisano, W.A., et al., "Predicting Lung Cancer by Detecting Aberrant Promoter Methylation in Sputum," <i>Cancer Res.</i> 60:5954-5958, American Association for Cancer Research (November 2000)

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	AL18						Yes No
	AM18						Yes No
	AN18						Yes No
	AO18						Yes No
	AP18						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	18	Radlowski, M., and Job, D., "Effect of disulfide and sulfhydryl reagents on abortive and productive elongation catalyzed by <i>Escherichia coli</i> RNA polymerase," <i>Acta Biochim. Pol.</i> 41:415-419, Panstwowe Wydawnictwo Naukowe (1994)
	AS	18	Rice, J.C., <i>et al.</i> , "Aberrant methylation of the <i>BRCA1</i> CpG island promoter is associated with decreased <i>BRCA1</i> mRNA in sporadic breast cancer cells," <i>Oncogene</i> 17:1807-1812, Stockton Press (1998)
	AT	18	Robertson, K.D., "DNA methylation, methyltransferases, and cancer," <i>Oncogene</i> 20:3139-3155, Nature Publishing Group (May 2001)

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	AL19						Yes No
	AM19						Yes No
	AN19						Yes No
	AO19						Yes No
	AP19						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	19	Tlsty, T.D., et al., "Differences in the rates of gene amplification in nontumorigenic and tumorigenic cell lines as measured by Luria-Delbrück fluctuation analysis," <i>Proc. Natl. Acad. Sci. USA</i> 86:9441-9445, National Academy of Sciences (1989)
	AS	19	Toyota, M., and Issa, J.-P.J., "CpG island methylator phenotypes in aging and cancer," <i>Semin. Cancer Biol.</i> 9:349-357, Academic Press (1999)
	AT	19	Toyota, M., and Issa, J.-P.J., "The role of DNA hypermethylation in human neoplasia," <i>Electrophoresis</i> 21:329-333, Wiley-VCH Verlag GmbH (January 2000)

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	AN20					Yes No
	AO20					Yes No
	AP20					Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>20</u>	Vogelstein, B., and Kinzler, K.W., "The multistep nature of cancer," <i>Trends Genet.</i> 9:138-141, Elsevier Science Publishers Ltd. (1993)
	AS	<u>20</u>	Wang, J.-Y., et al., "Monovalent cations differ in their effects on transcription initiation from a σ -70 promoter of <i>Escherichia coli</i> ," <i>Gene</i> 196:95-98, Elsevier Science B.V. (1997)
	AT	<u>20</u>	Wu, D.Y., and Wallace, R.B., "The Ligation Amplification Reaction (LAR) - Amplification of Specific DNA Sequences Using Sequential Rounds of Template-Dependent Ligation," <i>Genomics</i> 4:560-569, Academic Press, Inc. (1989)

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